

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number: 14-212

PROJECT INFORMATION

Project Title: Mount Trumbull #9748 Water Catchment Redevelopment

Region and Game Management Unit: Region II, GMU 13A

Local Habitat Partnership Committee (LHPC):

- Arizona Strip Habitat Working Group

Was the project presented to the LHPC?
YES[X] NO []

This project has been reviewed and approved by the Arizona Strip Habitat Working Group and is part of the statewide Water Implementation Schedule, as well as the local regional water prioritization.

Has this project been submitted in previous years? YES[X] NO[]

If Yes, was it funded? YES[] NO [X]→ **Funded HPC Project #(s):**

Project Type: Wildlife Water Catchment Redevelopment

Brief Project Summary:

This project will be a complete redevelopment of Mt. Trumbull #9748 (BLM) Wildlife Water Catchment in southern GMU 13A. Redevelopment will include an upgraded apron material, a larger storage tank, a new walk-in wildlife drinker, and replacement of existing barbed wire fence with steel rail fences. R-panel type roofing panels are to be fastened to a new metal frame that will replace the current biddum tar apron at the site. 4 polyethylene storage tanks at 2,500 gallons each will replace the existing small concrete vault, and a new 4' polyethylene walk in style trough will replace the existing small metal drinker. Redevelopment of this catchment is necessary to meet AZGFD statewide strategic goals, AZGFD water development implementation plans on the Arizona Strip, and BLM objectives for management of mule deer and wildlife habitat.

Big Game Wildlife Species to Benefit: Mule Deer, Merriam's Turkey, and any other wildlife in the area

Implementation Schedule (Month/Day/Year):

Project Start Date: Spring 2015

Project End Date: Summer 2016

Environmental Compliance:

NEPA Completed: Yes[X] No[] N/A[]

Projected Completion Date: 6/20/2013

State Historic Preservation Office - Archaeological Clearance:

Yes[X] No[] N/A[]

Projected Completion Date: 6/22/2011

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: Joe Currie

Projected Completion Date: Fall 2012

PROJECT FUNDING

Special Big Game License Tag Funds Requested: \$ 75,920

Cost Share or Matching Funds: \$ 0

Total Project Costs: \$75, 920

PARTICIPANT INFORMATION

Applicant (please print):

Jeremy Felish
Wildlife Manager III, GMU 13A

Address:

3500 South Lake Mary Road
Flagstaff, Arizona 86001

E-mail: Jfelish@azgfd.gov

Telephone: 928-856-0726

Date: September 1, 2014

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Project has been coordinated with: Arizona Game and Fish Department
Bureau of Land Management, Arizona Strip District

NEED STATEMENT – PROBLEM ANALYSIS:

Mount Trumbull wildlife catchment (#9748) is a Bureau of Land Management owned wildlife facility, originally constructed in 1978 to meet the objectives of mule deer management on the Arizona Strip District. This wildlife catchment is located within the Grand Canyon Parashant National Monument on top of Mount Trumbull located in the Mount Trumbull Wilderness.

Presently, the existing wooden frame on the apron is deteriorating causing the metal panels to be blown off and caved in every year, which is causing the catchment to be ineffective in capturing precipitation. The small concrete storage vault does not supply enough water for the amount of pressure it receives on a monthly basis, and could possibly be cracked. The drinker is small and only allows for one game animal to drink at a time. Each visit to this catchment requires extensive repair work to the fence, apron, and float valve. Recently, this catchment received a lightning strike caused fire within the foot apron and it is unknown if any extensive damage has been caused to the catchment. This catchment should be redeveloped to prevent failure and to continue to provide a very valuable and dependable perennial source of water for mule deer and turkey.

This water catchment is located in a very crucial summer range for mule deer. This habitat has seen a significant increase in population of mule deer over the past several years, and is used extensively during summer months. This water serves as a dependable perennial water source for mule deer, and other wildlife utilizing this area of GMU 13A.

Redevelopment will improve water collection, storage capabilities, and the lifespan of the Mount Trumbull water catchment. Redevelopment of this catchment is necessary to meet AZGFD statewide strategic goals, Arizona Strip water development implementation plans, and BLM objectives for management of mule deer and wildlife habitat.

PROJECT OBJECTIVES:

- Improve water availability and distribution for wildlife, in particular mule deer and wild turkey.
- Improve habitat use and distribution of wildlife species by providing additional reliable water sources within the area while increasing life expectancy and dependability of wildlife catchments.
- Decrease maintenance needs by increasing capacity, and removing mechanical components
- Continue the task through the Statewide Water Development Implementation Plan, and the regional wildlife water priority of redeveloping wildlife water catchments in GMU 13A that have failed or in disrepair due to age.
- Make progress in meeting BLM Desired Future Condition objectives for mule deer habitat as outlined by the BLM RMP.
- Increase life expectancy and dependability of this catchment
- Decrease or eliminate potential water hauling requirements to this development

PROJECT DESCRIPTION AND STRATEGIES:

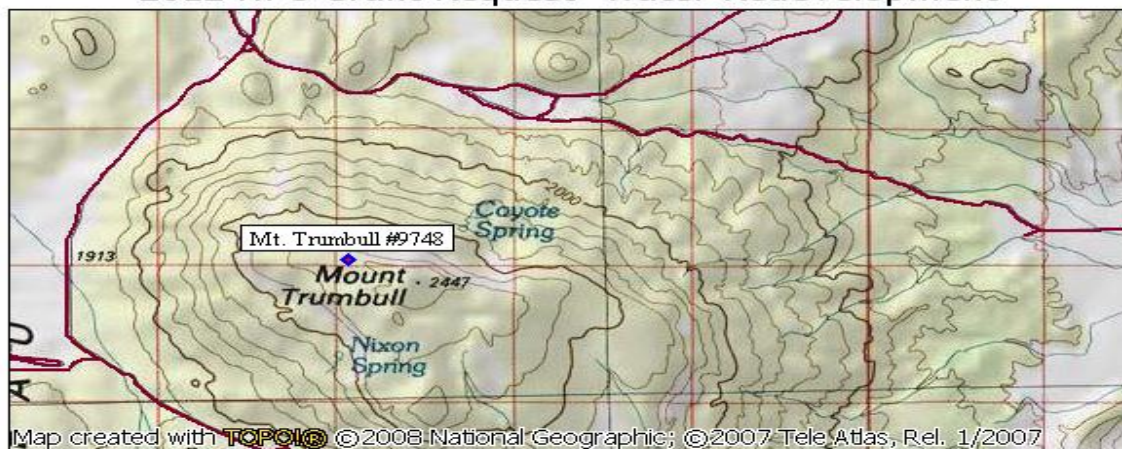
Utilize Big Game Special Tag Funds and the services of a private contractor to redevelop this catchment. Redevelopment of this facility would include the following:

1. Purchase and install a new apron package (24'X72') using metal studs and R-paneling.
2. Replace existing concrete storage tank with 4 polyethylene water storage tanks with a total capacity of 10, 000 gallons.
3. Replace existing metal drinker with a 4' polyethylene walk-in drinker.
4. Replace existing barbed wire fence with new 200' X 200' steel pipe fence.
5. Purchase and install miscellaneous plumbing materials to plumb storage tank and drinker.
6. Utilize a helicopter to ferry all the materials into the wilderness site.

PROJECT LOCATION:

Game Management Unit 13A
Mohave County, AZ
N36.3973942', W-113.125957'

2012 HPC Grant Request- Water Redevelopment



0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles
0 1 2 3 4 5 km

TN * MN
11 1/2
09/01/12

LAND OWNERSHIP AT THE PROJECT SITE(S):

(If the project area is private property, please state specifically and provide the landowner's name)

This project is located 100% on federally managed land administered by the Bureau of Land Management, AZ Strip Field Office inside the Grand Canyon Parashant Monument.

IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

YES[] NO[] N/A [X]

HABITAT DESCRIPTION:

The Mount Trumbull wildlife water catchment is located within the Mt. Trumbull Wilderness area and is best described as a ponderosa pine forest, with pinyon juniper woodland interfaces. Vegetation at the project site consists of ponderosa pine trees. This catchment is located at approximately 7700' ASL.

There are several habitat treatments within the area including a chaining to the north of the catchment that provides cliffrose, oak, serviceberry, and other browse species beneficial to mule deer. This area also provides various grass species such as wheat grass and grama grasses. These treatments as well as the ponderosa forest in the area not only provide habitat for mule deer but also for turkeys in the area as well as for several raptor species.

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

Costs Category – Equipment, Labor, Materials, etc.	Grant Dollars Requested – Special Tag Funds
24'X72' Metal Stud and R- Panel Apron	\$ 7500.00
4' Polyethylene Walk-in Wildlife Drinker	\$ 4500.00
4 Polyethylene Water Storage Tanks 10,000 Gallons	\$ 13,400.00
Steel Pipe Fence 200' X 200'	\$ 4520.00
Misc. plumbing supplies	\$ 1,000.00
Contractor Services \$ 25000.00 ea.	\$ 25,000.00
Helicopter Ferry	\$ 20,000
EA Documentation – Use of Contractor 3723.63 ea.	Already Completed by BLM
Totals	\$ 75,920.00

Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

It is possible that the Bureau of Land Management might be able to provide some funding but it is currently unknown at this time.

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Arizona Game and Fish Department

- Personnel with the Arizona Game and Fish Department will request funding, provide project coordination, and disperse funds to a private contractor.

Bureau of Land Management

- BLM might be able to provide funding but it will not be known until the next fiscal year. BLM has provided all the archeological clearances and NEPA work for this project.

Private Contractor

- Complete redevelopment of the Ponderosa Burn #9753 water catchment

The Arizona Deer Association as well as the Arizona Mule Deer Foundation may be potential cooperators with this project. Participation from these groups is unknown at this time.

WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?

YES ☒ NO ☐ N/A ☐

History has shown that during travel management planning of the land management agencies, roads that have historic use and provide access to wildlife waters receive priority in remaining open to the public.

PROJECT MONITORING PLAN:

After completion of this project, the wildlife catchment will continue to be monitored as part of the Region II Game Management Unit 13A water development protocol. This protocol outlines facility inspection schedules, as well as maintenance schedules if needed. This catchment will be inspected at least twice a year between April and October each year.

PROJECT MAINTENANCE:

The project will be maintained by the responsible District Wildlife Manager, who may complete minor maintenance issues when possible. The Arizona Game and Fish Department Development Crew will complete routine maintenance or major repairs of each facility when necessary. As outlined in the project narrative, long term maintenance needs are expected to be minimal. All maintenance and access needs will be closely coordinated with the Arizona Strip BLM office.

PROJECT COMPLETION REPORT TO BE FILED BY:

Jeremy Felish – Wildlife Manager III, GMU 13A

WATER DEVELOPMENT PROJECTS (please use the worksheet below):

TREE CLEARING/REMOVAL PROJECTS (please use the worksheet below):

ARIZONA GAME AND FISH DEPARTMENT WATER DEVELOPMENT WORKSHEET

PROJECT TITLE: Mount Trumbull #9748 Water Catchment Redevelopment

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**

Yes, in addition this water is also listed on the regional prioritization list for wildlife catchments.

- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joe Curry, ongoing 2010-2014

- 3) **What are the estimated annual inches of precipitation for the area? (Mark one)**

☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8-10 ☒ 10-12 ☐ 12-14 ☐ 14-16 ☐ >16

- 4) **Is there a perennial water source available to big game within four miles of this project?**

YES☒ (please complete #5 below) NO ☐ (skip #5 below)

- 5) **For the accessible, perennial water source nearest this project:**

Name of water source: Mount Trumbull #5, Catchment #617

Type of water source (catchment, spring, dirt tank): Catchment

Ownership of water source: Arizona Game and Fish Department

Distance in miles from project: Approximately: 3 miles

- 6) **Is the target wildlife species a result of transplant efforts? YES ☐ NO ☒**

- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, and National Monument). If private land, list landowner.**

This project is located within the Grand Canyon – Parashant National Monument and is located within the Mount Trumbull Wilderness.

- 8) **Please provide the following information about access to the proposed site:**

Type of access (mark one): ☐ 2x4 vehicles ☐ 4x4 only ☒ foot only**

**If foot access only: Distance in miles: Approximately 1.5 miles

Approximate hiking time: Approximately 1 hours

-- Does access to this site require crossing private or tribal lands? YES ☐ NO☒

-- Please describe any restrictions to public access: None.

9) Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.

- 24' by 72' r-panel apron package and steel frame
- 4 Polyethylene water storage tanks 2,500 gallons each
- 4' Polyethylene walk-in trough
- 200' by 200' pipe rail fence

10) Was a site visit completed? Yes[X] No[]

If Yes, please list personnel that attended and date.

- A site visit was conducted June 2010 consisting of the Arizona Strip BLM field office personnel and the 271 and 272 wildlife managers to discuss water redevelopment. Another site visit was conducted in September 2011 with the same personnel.
- Archeologist visited this site in 2011 and cleared it for redevelopment
- BLM revisited this site again in 2012 and cleared it for work